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INFORMATION DISCLOSURE  
STATEMENT  
Examining Group 1723  
Patent Application  
Docket No. USF-236XT  
Serial No. 10/716,310

Doran R. Pace, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Ernest G. Therkorn  
Art Unit : 1723  
Applicants : Abdul Malik, Abuzar Kabir, George R. Newkome, Kyung Soo Yoo  
Serial No. : 10/716,310  
Filed : November 18, 2003  
Conf. No. : 7300  
For : Sol-Gel Dendron Separation and Extraction Capillary Column

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.97 AND 1.98

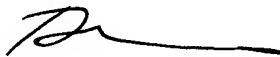
Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted copies of the U.S. patents cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



Doran R. Pace  
Patent Attorney  
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DRP/sl

Attachments: Form PTO/SB/08; copies of references cited therein.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/716,310
Sheet	1	of	5	Filing Date	November 18, 2003
				First Named Inventor	Abdul Malik
				Art Unit	1723
				Examiner Name	Ernest G. Therkorn
				Attorney Docket Number	USF-236XT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
U1	US-5,703,271		12-30-1997	Newkome <i>et al.</i>	All
U2	US-5,886,126		03-23-1999	Newkome <i>et al.</i>	All
U3	US-5,886,127		03-23-1999	Newkome <i>et al.</i>	All
U4	US-				
U5	US-				
U6	US-				
U7	US-				
U8	US-				
U9	US-				

FOREIGN PATENT DOCUMENTS					
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F1					
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	R1	ABE, I. et al. "A Simple and Versatile End-Sealing for Static Coating of Wide-Bore Glass Capillaries", <i>Chromatographia</i> , June 1989, pp. 631-632, Vol. 27, Nos. 11-12.			T <sup>2</sup>
	R2	AOI, K. et al. "Globular Carbohydrate Macromolecule "Sugar Balls". 1. Synthesis of Novel Sugar-Persubstituted Poly(amido amine) Dendrimers", <i>Macromolecules</i> , 1995, pp. 5391-5393, Vol. 28.			
	R3	AOI, K et al. "Synthesis of Mono(Glycopeptide)-Persubstituted Dendrimers by Polymer Reaction with Sugar-Substituted $\alpha$ -Amino Acid N-Carboxyanhydrides(glycoNCAs)", <i>Macromol. Rapid Commun.</i> , 1998, pp. 5-9, Vol. 19.			
	R4	AOI, K. et al. "Globular Carbohydrate Macromolecule "Sugar Balls" 3. "Radial-Growth Polymerization" of Sugar-Substituted $\alpha$ -Amino Acid N-Carboxyanhydrides (GlycoNCAs) with a Dendritic Initiator", <i>Tetrahedron</i> , 1997, pp. 15415-15427, Vol. 53, No. 45.			
	R5	ASTRUC, D. et al. "The First Organometallic Dendrimers: Design and Redox Functions", <i>Topics in Current Chemistry</i> , 2000, pp. 229-259, Vol. 210.			
	R6	BHATTACHARYA, S. et al. "Synthesis of Novel Cationic Lipids with Oxyethylene Spacers at the Linkages Between Hydrocarbon Chains and Pseudoglyceryl Backbone", <i>Tetrahedron Letters</i> , 1999, pp. 8167-8171, Vol. 40.			
	R7	BHYRAPPA, P. et al. "Dendrimer-Metalloporphyrins: Synthesis and Catalysis", <i>J. Am. Chem. Soc.</i> , 1996, pp. 5708-5711, Vol. 118.			
	R8	BLOMBERG, L. G. "Current Aspects of Stationary Phase Immobilization in Open Tubular Column Chromatography", <i>Journal of Microcolumn Separations</i> , September 1990, pp. 62-68, Vol. 2, No. 2.			
	R9	BRINKER, C. J. et al. "Sol-Gel Science" In: <i>The Physics and Chemistry of Sol-Gel Processing</i> , 1990, Academic Press, Inc. San Diego, CA.			
	R10	CASADO, C. M. et al. "Redox-Active Ferrocenyl Dendrimers and Polymers in Solution and Immobilised on Electrode Surfaces", <i>Coordination Chemistry Reviews</i> , 1999, pp. 53-79, Vol. 185-186.			
	R11	CHONG, S. L. et al. "Sol-Gel Coating Technology for the Preparation of Solid-Phase Microextraction Fibers of Enhanced Thermal Stability", <i>Anal. Chem.</i> , 1997, pp. 3889-3898, Vol. 69.			
	R12	CUADRADO, I. et al. "Organometallic Dendrimers with Transition Metals", <i>Coordination Chemistry Reviews</i> , 1999, pp. 395-445, Vol. 193-195.			

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Substitute for form 1449B/PTO  
**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

5

**Complete if Known**

Application Number	10/716,310
Filing Date	November 18, 2003
First Named Inventor	Abdul Malik
Group Art Unit	1723
Examiner Name	Ernest G. Therkorn

Attorney Docket Number

USF-236XT

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	R13	GUO, Y. et al. "A Stationary Phase for Open Tubular Liquid Chromatography and Electrochromatography Using Sol-Gel Technology", <i>Anal. Chem.</i> , 1995, pp. 2511-2516, Vol. 67.	
	R14	HAYES, J. D. et al. "Sol-Gel Chemistry-Based Ucon-Coated Columns for Capillary Electrophoresis", <i>Journal of Chromatography B</i> , 1997, pp. 3-13, Vol. 695.	
	R15	HAYES, J. D. et al. "Sol-Gel Monolithic Columns with Reversed Electroosmotic Flow for Capillary Electrochromatography", <i>Anal. Chem.</i> , 2000, pp. 4090-4099, Vol. 72.	
	R16	HAYES, J. D. et al. "Sol-Gel Open Tubular ODS Columns with Reversed Electroosmotic Flow for Capillary Electrochromatography", <i>Anal. Chem.</i> , 2001, pp. 987-996, Vol. 73.	
	R17	HIERLEMANN, A. et al. "Structural Distortion of Dendrimers on Gold Surfaces: A Tapping-Mode AFM Investigation", <i>J. Am. Chem. Soc.</i> , 1998, pp. 5323-5324, Vol. 120.	
	R18	JAMES, A. T. et al. "Gas-Liquid Partition Chromatography: The Separation and Micro-Estimation of Volatile Fatty Acids from Formic Acid to Dodecanoic Acid", <i>Biochem.</i> , 1952, pp. 679-690, Vol. 50.	
	R19	KOIVUSALMI, E. et al. "Quantitative RP-HPLC Determination of Some Aldehydes and Hydroxyaldehydes as Their 2,4-Dinitrophenylhydrazone Derivatives", <i>Anal. Chem.</i> , 1999, pp. 86-91, Vol. 71.	
	R20	KÖLLNER, C. et al. "Dendrimers Containing Chiral Ferrocenyl Diphosphine Ligands for Asymmetric Catalysis", <i>J. Am. Chem. Soc.</i> , 1998, pp. 10274-10275, Vol. 120.	
	R21	KOPPENHOEFER, B. et al. "Backbone Modification of Chirasil-Val I. Effect of Loading on the Separation of Enantiomers by Gas Chromatography", <i>Journal of Chromatography A</i> , 1995, pp. 215-221, Vol. 699.	
	R22	LEE, M. L. et al. "Polarizable Polysiloxane Stationary Phases for Capillary Column Gas Chromatography", <i>Journal of Chromatography A</i> , October 19, 1984, pp. 303-318, Vol. 302.	
	R23	MALIK, A. et al. "Novel Cyanobiphenylpolysiloxane Stationary Phases for Gas and Supercritical Fluid Chromatography", <i>Journal of Microcolumn Separations</i> , September 1992, pp. 529-540, Vol. 4, No. 6.	
	R24	MAYER, B. X. et al. "Characterization of Stationary Phases for Gas Chromatography by <sup>29</sup> Si NMR Spectroscopy II. Silphenylene-Siloxane Copolymers", <i>Journal of Chromatography A</i> , 2001, pp. 219-226, Vol. 917.	

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Sheet	4	of	5	Application Number	10/716,310
				Filing Date	November 18, 2003
				First Named Inventor	Abdul Malik
				Group Art Unit	1723
				Examiner Name	Ernest G. Therkorn
				Attorney Docket Number	USF-236XT

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	R25	NARAYANAN, V. V. et al. "Supramolecular Chemistry within Dendritic Structures", <i>Topics in Current Chemistry</i> , 1998, pp. 19-77, Vol. 197.			T <sup>2</sup>
	R26	NAWROCKI, J. "Silica Surface Controversies, Strong Adsorption Sites, Their Blockage and Removal. Part I", <i>Chromatographia</i> , February 1991, pp. 177-192, Vol. 31, Nos. 3-4.			
	R27	NEWKOME, G. R. et al. "Cascade Polymers: Syntheses and Characterization of One-Directional Arborols Based on Adamantane", <i>J. Org. Chem.</i> , 1991, pp. 7162-7167, Vol. 56.			
	R28	NEWKOME, G. R. et al. "Suprasupermolecules with Novel Properties: Metallocendrimers", <i>Chem. Rev.</i> , 1999, pp. 1689-1746, Vol. 99.			
	R29	NEWKOME, G. R. et al. "A Useful Dendritic Building Block: DI- <i>tert</i> -BUTYL 4-[(2- <i>tert</i> -BUTOXYCARBONYL)ETHYL]-4-ISOCYANATO-1,7-HEPTANEDICARBOXYLATE", <i>Tetrahedron Letters</i> , 1997, pp. 7053-7056, Vol. 38, No. 40.			
	R30	PARK, J. H. et al. "Separation of Positional Isomers on A,C- and A,D-Bridged Calix[6]arene as Stationary Phases in Capillary GC", <i>J. High Resol. Chromatogr.</i> , December 1999, pp. 679-682, Vol. 22, No. 12.			
	R31	ROY, R. et al. "Recent Applications of Olefin Metathesis and Related Reactions in Carbohydrate Chemistry", <i>Chem. Commun.</i> , 2000, pp. 519-529.			
	R32	SANDRA, P. et al. "Mixed Phases of Superox 20M and OV-1 in Fused Silica and Glass Capillary Gas Chromatography", <i>Chromatographia</i> , June 1981, pp. 345-350, Vol. 14, No. 6.			
	R33	SCHOMBURG, G. et al. "Alkylpolysiloxane Glass Capillary Columns Combining High Temperature Stability of the Stationary Liquid and Deactivation of the Surface Thermal Treatment of Dealkalinized Glass Surfaces by the Stationary Liquid Itself", <i>Chromatographia</i> , October 1979, pp. 651-660, Vol. 12, No. 10.			
	R34	SHINBO, T. et al. "Separation of Aromatic Isomers on Cyclophane-Bonded Stationary Phases", <i>Journal of Chromatography A</i> , 2000, pp. 61-69, Vol. 877.			
	R35	SMITH, D. K. et al. "Supramolecular Dendrimer Chemistry: A Journal Through the Branched Architecture", <i>Topics in Current Chemistry</i> , 2000, pp. 183-227, Vol. 210.			
	R36	STODDART, F. J. et al. "Metal-Containing Dendritic Polymers", <i>Polyhedron</i> , 1999, pp. 3575-3591, Vol. 18.			

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	R37	SUMPTER, S. R. et al. "Static Coating of 5 to 50 µm I.D. Capillary Columns for Open Tubular Column Chromatography", <i>Journal of Chromatography A</i> , September 26, 1990, pp. 503-519, Vol. 517.		
	R38	VENTURI, M. et al. "Electrochemical and Photochemical Properties of Metal-Containing Dendrimers", <i>Topics in Current Chemistry</i> , 1998, pp. 193-228, Vol. 197.		
	R39	WANG, D. et al. "Sol-Gel Column Technology for Single-Step Deactivation, Coating, and Stationary-Phase Immobilization in High-Resolution Capillary Gas Chromatography", <i>Anal. Chem.</i> , 1997, pp. 4566-4576, Vol. 69.		
	R40	WOOLLEY, C. L. "Deactivation of Fused Silica Capillary Columns with Polymethylhydrosiloxanes" <i>Journal of High Resolution Chromatography &amp; Chromatography Communications</i> , June 1984, pp. 329-332, Vol. 7.		
	R41	WRIGHT, B. W. et al. "Free Radical Cross-Linking in the Preparation of Non-Extractable Stationary Phases for Capillary Gas Chromatography", <i>Journal of Chromatography A</i> , October 15, 1982, pp. 17-34, Vol. 248, No. 1.		
	R42	YAKABE, Y. et al. "Immobilization Method for Polyethylene Glycol Using a Cross-Linking Co-Agent", <i>Journal of Chromatography A</i> , September 27, 1991, pp. 323-327, Vol. 558, No. 1.		
	R43	YI, G. et al. "New Permethyl-Substituted β-Cyclodextrin Polysiloxanes for Use as Chiral Stationary Phases in Open Tubular Column Chromatography", <i>J. Org. Chem.</i> , 1993, Vol. 4844-4850, Vol. 58.		
	R44	ZENG, F. et al. "Dendrimers in Supramolecular Chemistry: From Molecular Recognition to Self-Assembly", <i>Chem. Rev.</i> , 1997, pp. 1681-1712, Vol. 97.		
	R45			
	R46			
	R47			
	R48			

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